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MESSAGE

Re: U.S. Patent Application of Christopher J. Corcoran
Entitled: COMPACT PHASE LOCKED LASER
ARRAY AND RELATED TECHNIQUES
Filed On: January 22, 2004
Application No.: 10/763,406
Atty. Dckt. No.: CJC-002AUS

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/763,406	
	Filing Date	January 22, 2004	
	First Named Inventor	Christopher J. Corcoran	
	Art Unit	2828	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	8	Attorney Docket Number	CJC-002AUS

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard PTO-1449 with 41 cited references
Remarks: In the event a petition for extension of time is required by this paper and not otherwise provided, such petition is hereby made and authorization is provided herewith to charge deposit account No. 50-0845 for the cost of such extension.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Kermit Robinson Daly, Crowley & Mofford, LLP	Reg. No. 48,734
Signature	<i>Kermit Robinson</i>	
Date	May 25, 2004	

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MAY 28 2004
OFFICIAL PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/763,406 Confirmation No.: 4534
Applicant : Christopher J. Corcoran
Filed : January 22, 2004
T.C./A.U. : 2828
Examiner : Not Yet Assigned

Docket No. : CJC-002AUS
Customer No. : 022494

Certificate of Mailing (37 C.F.R. 1.8(a))

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By: Kermit Robinson
Kermit Robinson
Reg. No. 48,734

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Dear Sir:

It is desired to cite for the record in this application the enclosed documents listed on the attached copy of PTO form PTO/SB/08A (Formerly #1449). The paragraph(s) marked below are applicable to this Information Disclosure Statement.

[X] (1) The enclosed Information Disclosure Statement is being filed: within three months of the filing date; or within three months of the entry of the national stage of the above-identified application; or before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. Accordingly, Applicant(s) believes that no fee or statement is required.

Appl. No. 10/763,406

Docket No. CJC-002AUS

[] (2) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by the fee set forth in 37 C.F.R. § 1.17(p).

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

[] (3) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(2)

[] (4) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

Appl. No. 10/763,406

Docket No. CJC-002AUS

SUBMISSION UNDER 37 C.F.R. § 1.97(c)INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[] (5) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(1)

[] (6) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(2)

[] (7) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to

Appl. No. 10/763,406

Docket No. CJC-002AUS

any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)

INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[] (8) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy Rule 98(a) (3) even if in a foreign language, since the few terms of relevance therein are deemed of universal cognizance. However, Applicant(s) does not necessarily adopt the position reflected by that report.

Appl. No. 10/763,406

Docket No. CJC-002AUS

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845.

Respectfully submitted,

Dated: May 28, 2004

DALY, CROWLEY & MOFFORD, LLP

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Pursuant to 37 C.F.R. §1.98(d), copies of all references below marked with an *, which were previously cited in parent Application No. 09/968,293 filed on October 1, 2001 and issued as U.S. Patent No. 6,714,581 issued on March 30, 2004, are not enclosed herewith.

Page 1 of 2

Form PTO-1449 (Rev. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. CJC-002AUS	APPLICATION NO. 10/763,406
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Christopher J. Corcoran	
		FILING DATE January 22, 2004	GROUP 2828

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*
	*	4,246,548	01/1981	Rutz			
	*	4,479,224	10/1984	Rediker			
	*	4,813,762	03/1989	Leger et al.			
	*	4,818,062	04/1989	Scifres et al.			
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	*	5,802,092	09/1998	Endriz, John			
	*	5,874,710	12/1998	Rao et al.			
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	*	6,243,407	06/2001	Mooradian			
	*	6,385,229	05/2002	Hiroyuki, Hiro			

(702143)

Pursuant to 37 C.F.R. §1.98(d), copies of all references below marked with an *, which were previously cited in parent Application No. 09/968,293 filed on October 1, 2001 and issued as U.S. Patent No. 6,714,581 issued on March 30, 2004, are not enclosed herewith.

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Form PTO-1449 (Rev. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. CJC-002AUS	APPLICATION NO. 10/763,406
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Christopher J. Corcoran	
		FILING DATE January 22, 2004	GROUP 2828

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)		
*	"Module 3-11 Semiconductor Lasers;" The Center for Occupational Research and Development FIPSE-Supported Curriculum Morphing Project; Course 3, module 11, Semiconductor Lasers; from the website: http://cord.org/cm/lect/course03_mod11/mod03_11.htm ; pages 1-22	
*	"Module 6-9 Gratings;" The Center for Occupational Research and Development; 1988; ISBN 1-55502-084-0; from the website: http://cord.org/cm/lect/course06_mod09/mod06_09.htm ; pages 1-21	
*	"Phase-Locked Array of Antiguidded Lasers with Monolithic Spatial Filter", Electronics Letters, Vol. 25, No. 5, March 2, 1989, pp. 365-367.	
*	Botez, D. et al. "Diode Laser Arrays", Cambridge Studies in Modern Optics, pp. 1-3.	
*	CAOLA; "Self-Fourier Functions;" Letter to the Editor, J.Phys. A: Math. Gen. 24 (1991) printed in UK; 1991 IOP Publishing Ltd.; 0305-4470/91/191143+02; pages L1143-L1144	
*	CINCOTTI et al.; "Generalized Self-Fourier Functions;" Letter to the Editor, J. Phys. A: Math. Gen. 25 (1992) printed in UK; 1992 IOP Publishing Ltd.; 0305-4470/92/201191+04; pages L1191-L1194	
*	COFFEY; "Self-Reciprocal Fourier Functions;" J.Opt.Soc.Am. A, Vol. 11, No. 9/September 1994; pages 2453-2455	
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*	CORCORAN; "Phase Locked Fiber Laser Array in Compact External Cavity;" Phase I Small Business Innovation Research (SBIR) Program; Proposal #F001-2965, Topic #AF00-002; pages 3-25 plus SBIR proposal	
*	D'Amato, F.X. et al. "Coherent operation of an array diode lasers using a spatial filter in a Talbot cavity", Appl. Phys. Lett. 55 (9), August 28, 1989, pp. 816-818.	
*	Fader, W.J. et al. "Normal modes of N coupled lasers", Optics Letters, Vol. 10, No. 8, August 1985, pp. 381-383.	
*	Jeger, James R. et al. "Coherent addition of AlGaAs lasers using microlenses and diffractive coupling", Appl. Phys. Lett. 52 (21), May 23, 1988, pp. 1771-1773.	
*	LIPSON; Self-Fourier Objects and Other Self-Transform Objects: Comment;" 1993 Optical Society of America/Vol.-10, No. 9/September 1993; 0740-3232/93/092088-02; pages 2088-2089	
*	LOHMANN et al.; "Self-Fourier Objects and Other Self-Transform Objects;" 1992 Optical Society of America; Vol. 9, No. 11/November 1992/J.Opt.Soc.Am.A; 0740/3232/92/112009-04; pages 209-2012	
*	Mehuys, D. et al. "Supermode control in diffraction - coupled semiconductor laser arrays", Appl. Phys. Lett. 53 (13) September 26, 1988, pp. 1165-1167.	
*	Mehuys, David et al. "Modal analysis of linear Talbot - cavity semiconductor lasers", Optics Letters, June 1, 1991, Vol. 16, No. 11, pp. 823-825.	
*	Wrage, M. et al. "Combined phase locking and beam shaping of a multicore fiber laser by structured mirrors", Optics Letters, Vol. 26, No. 13, July 1, 2001, pp. 980-982.	